

COLLEGE OF TECHNOLOGY**Sardar Vallabhbhai Patal University of Agriculture and Technology, Modipuram, Meerut-250110****Dr Ravi Kant**
Principal Investigator

No. SVP/COT/REE/14/2026

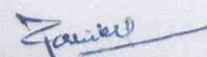
Date: 09/09/26

Name of Work: Quotation Invitation for purchase of Project Equipment

Sealed quotations are invited from the vendors/contractors/reputed firms/government agencies for purchase of equipment related to project work. Sealed quotation should reach to office of Principal Investigator (GFS/01 Renewable Energy Engineering Department, College of Technology, SVPUA&T, Meerut-250110) on or before 18/09/2026 at 5:00 PM by courier/speed post/registered Post, by hand and email (rkant8857@svpuat.edu.in). The details of Equipment to be purchased are given below:

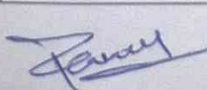
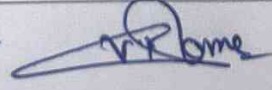
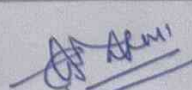
Table:1 List of Equipment

Sr. No	Name of Item	Specification	Quantity	Rate	Amount
1	Thermocouple	Thermocouple Type: Type K or PT 100 (for high temperatures) Temperature Range: 0°C to 600 °C (for thermic fluid & steam) and 0-250 °C for water Insulation Material: Ceramic / Magnesium Oxide (MgO) (for high temperatures) Response Time: 1-5 seconds (fast response required for control) Accuracy: $\pm 1.5^{\circ}\text{C}$	50		
2	Thermocouple wire bundle	Length per bundle: 50 m Wire type: Thermocouple Grade / Extension Grade Wire Gauge (AWG): 16 AWG to 24 AWG (depends on application) Temperature Range: -200°C to 1260°C (Type K), Max Cable Length: Up to 100m (with signal conditioning) Resistance (Ω/m): $<10 \Omega/\text{m}$ (for low signal loss) Accuracy Class: Class 1 ($\pm 1.5^{\circ}\text{C}$)	02		
3.	Pressure Guage	• Steam Pressure (Pressure Vessel) :Absolute/Differential Pressure Gauge, Range :0-10 bar	03		


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		Thermic Fluid Pressure (HTF Circuit): Gauge Pressure Sensor, range: 0-5 bar Technical Specification: Accuracy: $\pm 0.25\%$ to $\pm 0.5\%$ FS (Full Scale) Display Type: LCD / LED with backlight Units of Measurement: Bar, PSI, MPa, kPa, kg/cm² (User-selectable) Sensor Type: Piezoelectric / Strain Gauge / Capacitive Power Supply: Battery (3V/9V) or 24V DC (for PLC integration) Output Signal: 4-20mA, 0-10V, RS485 Modbus (for SCADA/PLC integration) Operating Temperature: -20°C to 80°C (Standard), -40°C to 150°C (High Temp) Process connection: 1/2" NPT / 1" NPT / BSP Threaded			
4.	Digital Data Logger (16 Channel)	Number of Channels: 16 (Expandable up to 32/64 if required) Input Types: Thermocouples (K, J, N, T), RTDs (Pt100), 4-20mA, 0-10V, Digital Inputs Resolution: 16-bit or higher for high-accuracy measurements Sampling Rate: 1 Hz to 1 kHz (Adjustable based on application) Accuracy: $\pm 0.1\%$ FS (Full Scale) or better Communication Interfaces: RS485 (Modbus RTU), RS232, Ethernet, Wi-Fi, USB, Bluetooth (Optional) Storage Capacity: Internal Memory (≥ 1GB) + USB/SD Card support (≥ 32GB) Power Supply: 24V DC / 230V AC (Battery Backup Optional) Display: 7" or 10" TFT LCD Touchscreen (Optional) Software Compatibility: Windows/Linux-based SCADA, Cloud Integration (IoT-enabled) Protection Rating: IP65 (Outdoor use), IP20 (Indoor Panel Mounting) Operating Temperature: -10°C to 70°C Mounting Type: Panel Mount / DIN Rail / Portable Handheld	03		


5.	Steam and liquid flow meter	Steam flow meter (01 Nos) Measurement Type: Mass Flow Meter / Vortex Flow Meter / Differential Pressure (DP) Flow Meter Flow Rate Range: 10 - 100 kg/h (Adjustable based on system requirements) Pressure Range: 0 - 10 bar (Adjustable based on system pressure) Temperature Range: 100°C - 300°C Accuracy: $\pm 0.5\%$ to $\pm 1\%$ of reading Output Signal: 4-20mA, RS485 Modbus, HART, Pulse Output Communication Protocol: Modbus RTU, Profibus, Ethernet/IP (Optional Wi-Fi/Bluetooth) Power Supply: 24V DC / 230V AC Display Type: LCD / LED with backlight (Shows flow rate, total flow, pressure, temperature) Material: SS316L (Corrosion-resistant for high-temp steam applications) Mounting Type: Flanged / Threaded / Insertion Type Protection Rating: IP65/IP67 (for outdoor installations) Explosion Proof: ATEX-certified for high-pressure steam environments Additional Features: Auto-calibration, Data Logging, Remote Monitoring, battery Backup Liquid flow meter (02 Nos) Measurement Type: Electromagnetic Flow Meter / Ultrasonic Flow Meter Flow Rate Range: 1 - 500 LPM (Adjustable based on system requirements) Pressure Range: 0 - 16 bar Temperature Range: 0°C - 150°C Accuracy: $\pm 0.2\%$ to $\pm 0.5\%$ of reading Output Signal: 4-20mA, RS485 Modbus, Pulse, HART Communication Protocol: Modbus RTU, Profibus, Ethernet/IP, IoT-enabled (Wi-Fi, Bluetooth, GSM optional) Power Supply: 24V DC / 230V AC Display Type: LCD with Totalizer, Real-time Flow Rate Display	03	
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	Material: SS316L (For high-pressure & temperature), PVC (For low-pressure applications) Mounting Type: Flanged / Threaded / Clamp-on (Ultrasonic Type) Protection Rating: IP65/IP68 (for outdoor and submerged applications) Additional Features: Auto-calibration, Remote Monitoring, Battery Backup			
			Total	
			GST as per Government rule	
			Grand Total	

Terms and Conditions

- The GST or any other charges over and above the rates should mention clearly.
- The envelope should be sealed
- The payment will be made through E-mode only after the work satisfactory completed. The Bank details along with IFSC code should be mentioned.
- The Hon'ble Vice-Chancellor, SVPUA&T, Meerut reserved the right to accept or reject any or all the quotations without assigning and reasons thereof.
- The copy of pan card should be enclosed.
- Copy of GST registration should be enclosed
- Quotation received after due date will not be entertained.

Copy to-

- All noticeboards
- The comptroller for kind information
- The officer In-charge (IT) with request to upload the notice on university website.
- P.R.O to Hon'ble Vice-Chancellor for kind Information



